WHAT IS CLAIMED IS:

1.   A file system protection method used in a computer having a volatile storage and a non-volatile storage, and means for simultaneously executing a plurality of operating systems, said method comprising steps of:

copying by a first OS, files to be used by a second OS and stored on said non-volatile storage, onto said volatile storage; and

using said copied files to execute said second OS, thereby starting an OS from a file system in a predetermined state each time said system is re-started.

2.   The file system protection method as claimed in Claim 1, wherein an OS not having a non-volatile storage stores a file by communicating with an OS having a volatile storage.

3.   The file system protection method as claimed in Claim 1, wherein said second OS of said computer has a communication device, and when an OS on an external computer having a communication device and a non-volatile storage exchange a file with said second OS via said communication devices, said second OS stores the file on said non-volatile storage of said external computer.

4.   The file system protection method as claimed in Claim 1, wherein said first OS and said second OS have communication devices which are connected to each

other by a communication line, and when exchanging a file via the communication devices, said second OS stores the file on said non-volatile storage of said first OS.

5.   The file system protection method as claimed in Claim 1, wherein when said first OS and said second OS exchange a file by communication via said means for simultaneously executing a plurality of OS, the second OS stores the file on said non-volatile storage of said first OS.

6.   A file system protection apparatus used in a computer having a volatile storage and a non-volatile storage, and means for simultaneously executing a plurality of operating systems, said apparatus comprising:

said volatile storage; and

means for copying by a first OS, files to be used by a second OS on said non-volatile storage, onto said volatile storage; and

means for using the copied files to execute said second OS, thereby starting an OS from a file system in a predetermined state each time said system is re-started.

7.   A storage medium having a program for executing a file system protection method used in a computer having a volatile storage and a non-volatile storage, and means for simultaneously executing a plurality of operating systems, wherein said medium is readable by a computer and said method comprises steps

of:

copying, by a first OS, files to be used by a second OS on said non-volatile storage, onto said volatile storage; and

using the copied files to execute said second OS, thereby starting an OS from a file system in a predetermined state each time said system is re-started.